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**A01K 97/12**

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(56) Documents Cited

**US 4702031 A**

(58) Field of Search

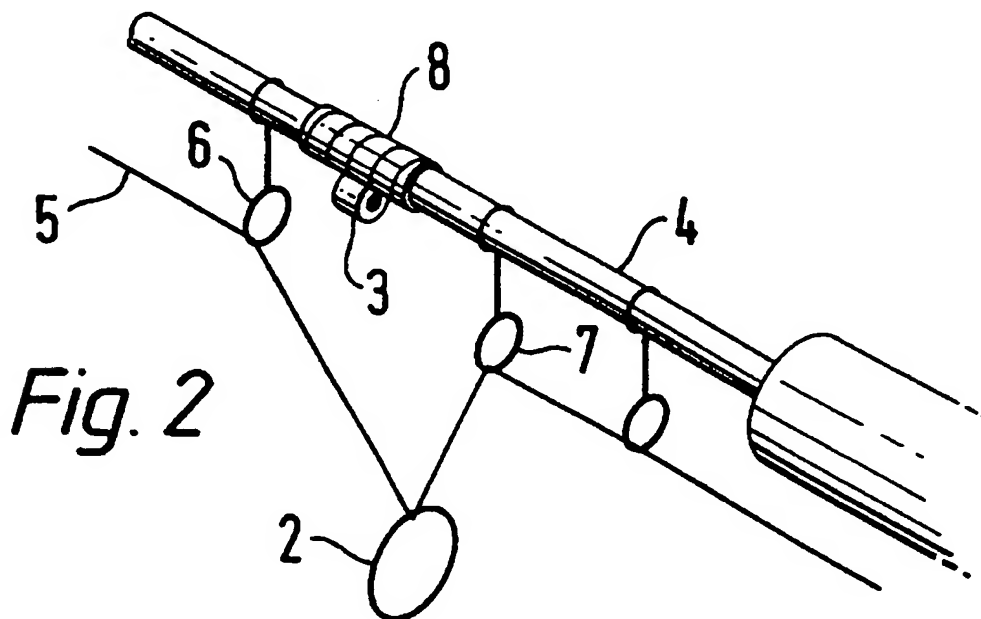
**UK CL (Edition O ) A1A A4**

**INT CL<sup>6</sup> A01K 97/12**

**Online: w.p.i.**

(54) Fishing bite detector

(57) A fishing bite detector, for use with a fishing rod and line of the kind wherein the line is attached to a reel, comprises an indicator 2 adapted to be loosely mounted on the fishing line and magnetic means 3 releasably coupling the indicator to the rod, whereby the indicator can be attached to the rod on casting the line and can be detached subsequently to hang on the line to provide a visual indication of line movement.



**GB 2 298 770 A**

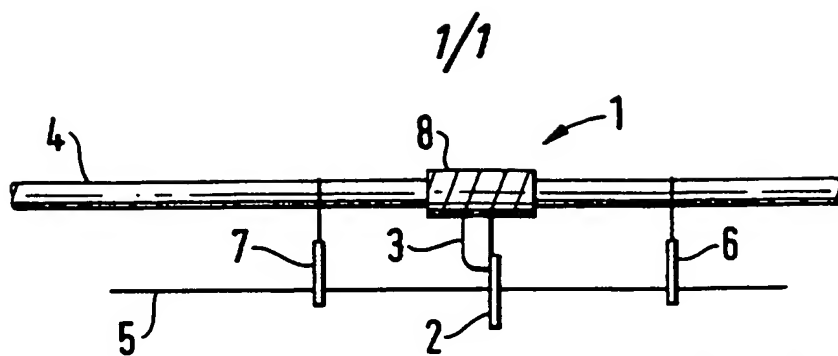


Fig. 1

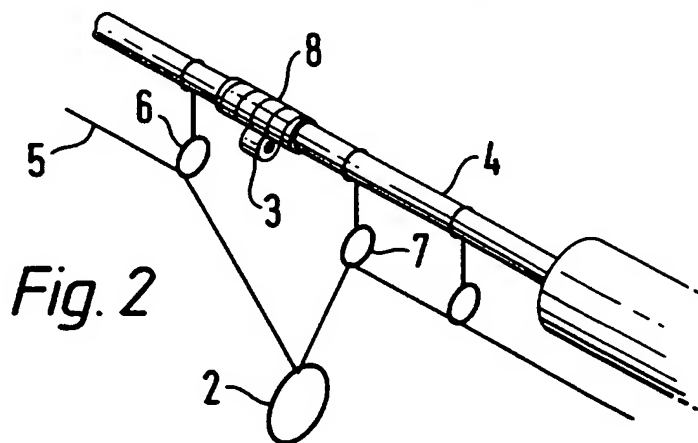


Fig. 2

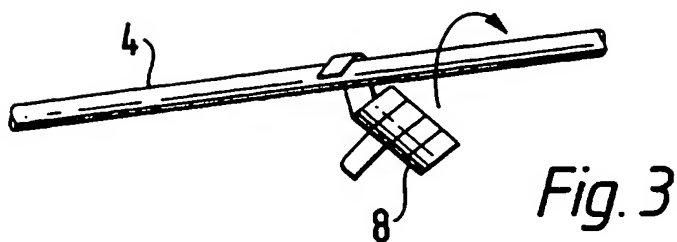


Fig. 3

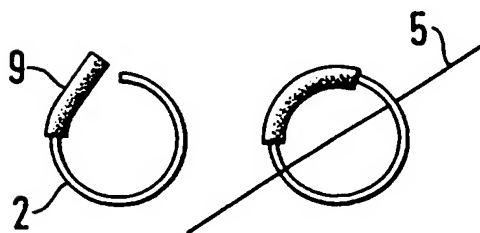


Fig. 4

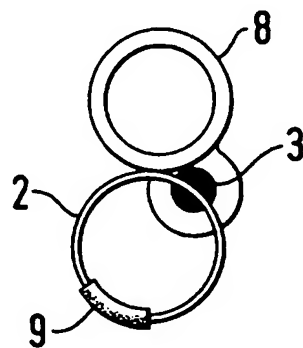


Fig. 5

**TITLE: FISHING BITE DETECTOR****DESCRIPTION**

The invention relates to a bite detector for anglers for use in those circumstances where an angler using a rod and line attached to a reel on the rod, chooses not to  
5 employ a float on the line.

A fishing bite detector is described in U.K. patent application No. 2093671 which comprises a block of material having a bore therethrough for receiving a fishing line and  
10 having a slot on an upper surface dimensioned so as to press-fit onto a fishing rod. In use the detector is attached to a rod and a fishing line threaded therethrough. After casting, the detector is detached from the rod and thereby is suspended on the line. A bite on the line will  
15 result in an upward movement of the detector.

This device has a number of disadvantages. For example, the use of a press-fit detector makes it difficult to remove and replace causing awkwardness in the use of the device as this operation has to be accomplished many times  
20 in the course of a fishing session. Furthermore, as fishing rods vary in width the device may fit too tightly on some rods making it even more difficult to remove and replace, and too loosely on others causing it to fly off when the angler is casting. Another problem is the shape of the  
25 device with its projections which increase the risk of tangles caused by the line catching on it. A further problem occurs when a fish has been hooked because the bite detector has to be pushed back on to the rod, because of

the risk of tangling, which is a difficult task for the angler to perform when engaged in controlling a fish.

It is an object of the invention to provide a fishing bite detector in which these problems are at least  
5 mitigated.

According to one aspect of the invention there is provided for use with a fishing rod and line of the kind wherein the line is attached to a reel, a fishing bite detector comprising an indicator adapted to be loosely  
10 mounted on the fishing line and magnetic means releasably coupling the indicator to the rod, whereby the indicator can be attached to the rod on casting the line and can be detached subsequently to hang on the line to provide a visual indication of line movement.

15 From another aspect there is provided for use with a fishing rod and line of the kind wherein the line is attached to a reel, a fishing bite detector comprising an indicator adapted to be loosely mounted on the fishing line, the indicator having no external projections, and  
20 means for releasably coupling the indicator to the rod, whereby the indicator can be attached to the rod on casting the line and can be detached subsequently to hang on the line to provide a visual indication of line movement. Preferably, the means for releasably coupling the indicator  
25 to the rod comprises magnetic means but may be in the form of a clip attached to the rod.

Normally, the indicator is sinkable below the water surface whilst hanging on the line so that it may not be

blown about by the wind.

The indicator may comprise a ferromagnetic weight. The shape of the indicator may vary but usually will take the form of a ring. Normally the indicator will be in bright  
5 colours for easy observation.

Where the indicator has no external projections, it is less liable to tangle and because of this it does not have to be replaced on the rod during retrieval of the fish.

The invention is diagrammatically illustrated, by way  
10 of example, in the accompanying drawings in which:-

Figure 1 shows a side view of the bite detector before and during casting;

Figure 2 shows a perspective view of the bite detector after casting;

15 Figure 3 shows magnetic means being attached to a fishing rod;

Figure 4 shows an indicator being mounted on a fishing line;

Figure 5 shows an indicator attached to magnetic  
20 means.

Referring to the drawings the bite detector 1 comprises a ferromagnetic split ring 2 as an indicator, and a magnet 3, attached to a rod 4 and line 5 between two rod rings 6 and 7, as the means for releasably coupling the  
25 indicator 2 to the rod 4.

The magnet 3 is attached to the rod 4 by a carrier 8. The carrier 8 is in the form of a spiral made from a resilient material, such as a plastics material, e.g.

ethylene vinyl acetate (EVA), and the magnet 3 is firmly attached to the carrier 8 by, for example, an adhesive. The carrier 8 is mounted on the rod 4 by pressing it against the rod 4 and winding the spiral carrier 8 onto the rod 4  
5 (see Figure 3).

The split ring 2 is placed on the fishing line 5 and the gap in the ring 2 closed with a piece of flexible tubing 9 (see Figure 4) made, for example, of polyvinyl chloride (PVC).

10 Figure 5 shows the ring 2 placed on the magnet 3. To allow free passage of the line 5, the ring 2 may be off-set on the magnet 3.

The bite detector 1 is shown in Figure 1 before and during casting with the ring 2 held by the magnet 3. After  
15 casting the ring 2 is detached from the magnet 3 and suspended from the line 5 between the two rod rings 6 and 7 (Figure 2). If the bait is taken by a fish the line 5 tightens and the ring 2 rises.

After casting the ring 2 may be suspended beneath the  
20 water surface so that it will not blow about in the wind. During the retrieval of a fish the ring 2 slides along the line 5 and comes to rest against the lower of the two rod rings where it remains whilst the fish is brought to the bank and landed.

25 When the angler desires to discontinue the use of the bite detector, the magnet may be removed from the rod by unwinding the spiral carrier. The split ring is then opened and detached from the line leaving the angler free to fish

by way of other methods not involving a bite detector.

It will be appreciated that other methods might be employed for attaching the magnet to the rod. Thus it might be glued directly to the rod, or lashed to the rod in  
5 conventional fashion. Alternatively it may be clipped to the rod.

The invention thus provides a simple and effective fishing bite detector.



CLAIMS

1. For use with a fishing rod and line of the kind wherein the line is attached to a reel, a fishing bite detector comprising an indicator adapted to be loosely  
5 mounted on the fishing line and magnetic means releasably coupling the indicator to the rod, whereby the indicator can be attached to the rod on casting the line and can be detached subsequently to hang on the line to provide a visual indication of line movement.
- 10 2. For use with a fishing rod and line of the kind wherein the line is attached to a reel, a fishing bite detector comprising an indicator adapted to be loosely mounted on the fishing line, the indicator having no external projections, and means for releasably coupling the  
15 indicator to the rod, whereby the indicator can be attached to the rod on casting the line and can be detached subsequently to hang on the line to provide a visual indication of line movement.
- 20 3. A fishing bite detector according to claim 2, wherein the means for releasably coupling the indicator to the rod comprises magnetic means.
4. A fishing bite detector according to claim 1 or claim 3, wherein the magnetic means comprises a magnet adapted to be attached to the rod.
- 25 5. A fishing bite detector according to claim 4, wherein the magnet is attached to the rod by means of a carrier.
6. A fishing bite detector according to claim 5, wherein the carrier is made from an insulating material.

7. A fishing bite detector according to claim 5 or claim 6, wherein the carrier is in the form of a spiral of resilient material.

8. A fishing bite detector according to claim 2, wherein  
5 the means for releasably coupling the indicator to the rod comprises a clip adapted to be attached to the rod.

9. A fishing bite detector according to any preceding claim, wherein the indicator is sinkable below the water surface whilst hanging on the line.

10 10. A fishing bite detector according to any preceding claim, wherein the indicator comprises a ferromagnetic weight.

11. A fishing bite detector according to any preceding claim, wherein the indicator is in the form of a ring.

15 12. A fishing bite detector according to any preceding claim, wherein the indicator is brightly coloured.

13. A fishing bite detector substantially as hereinbefore described with reference to, and as illustrated in, the accompanying drawings.



# The Patent Office

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Application No: GB 9604728.7  
Claims searched: 1,4-7,9-13

Examiner: R F PHAROAH  
Date of search: 11 April 1996

## Patents Act 1977 Search Report under Section 17

### Databases searched:

UK Patent Office collections, including GB, EP, WO & US patent specifications, in:  
UK Cl (Ed.O): A1A: A4  
Int Cl (Ed.6): A01K: 97/12  
Other: Online: w.p.i.

### Documents considered to be relevant:

| Category | Identity of document and relevant passage     | Relevant to claims |
|----------|---|--------------------|
| X        | US 4702031 A (SOUSA) see column 3 lines 24-36 | 1,4,5,6,9,10       |

|   |   |   |  |
|---|---|---|--|
| X | Document indicating lack of novelty or inventive step   | A | Document indicating technological background and/or state of the art.  |
| Y | Document indicating lack of inventive step if combined with one or more other documents of same category. | P | Document published on or after the declared priority date but before the filing date of this invention.          |
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